Physics

Displacement vs. Distance Worksheet

Name:_____ Block:_____

Learning Target: I can solve distance vs. displacement problems by following a set of directions.

Use the map on the back of this page and follow the directions step by step. You will need two different colors.

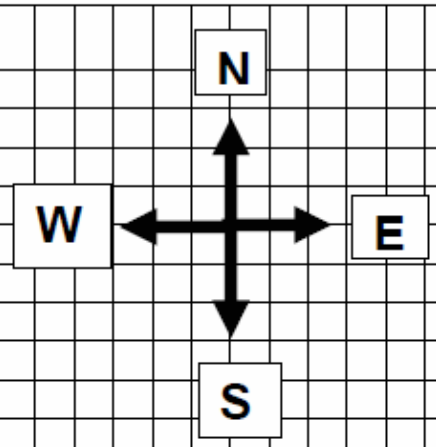
Problem A:

1. Measure a distance 10 cm straight East and mark it as Point A.
    a. Write down the Distance for Leg 1.
    b. Measure and write down the Displacement.
2. Measure a distance 10 cm straight North and mark it as Point B.
    a. Write down the Distance for Leg 2.
    b. Write down the Total Distance Traveled from Home.
    c. Using the ruler, measure and write down the Displacement.
3. Measure a distance 10 cm straight East and mark it as Point C.
    a. Write down the Distance for Leg 3.
    b. Write down the Total Distance Traveled from Home.
    c. Using the ruler, measure and write down the Displacement.
4. Measure a distance 10 cm straight South. Where are you?
    a. Write down the Distance for Leg 4.
    b. Write down the Total Distance Traveled from Home.
    c. Measure and write down the Displacement.

Problem B:

1. Measure a distance 12.5 cm straight North and mark it as Point A.
    a. Write down the Distance for Leg 1.
    b. Measure and write down the Displacement.
2. Measure a distance 2.5 cm straight West and mark it as Point B.
    a. Write down the Distance for Leg 2.
    b. Write down the Total Distance Traveled from Home.
    c. Using the ruler, measure and write down the Displacement.
3. Measure a distance 15 cm straight South and mark it as Point C.
    a. Write down the Distance for Leg 3.
    b. Write down the Total Distance Traveled from Home.
    c. Using the ruler, measure and write down the Displacement.
4. Measure a distance 5 cm straight East.
    a. Write down the Distance for Leg 4.
    b. Write down the Total Distance Traveled from Home.
    c. Using the ruler, measure and write down the Displacement.

Displacement vs. Distance Worksheet



Home

Scale: Each unit equals 0.5 cm

Leg	Distance	Total Distance	Displacement
1			
2			
3			
4			